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IS 12627 (1989): Forestry tools - Loop handles, two-men cross cut saws [FAD 21: Farm Implements and Machinery]



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“Knowledge is such a treasure which cannot be stolen”

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IS 12627 : 1989
(Reaffirmed 2004)

Indian Standard

FORESTRY TOOLS — LOOP HANDLES, TWO- MEN CROSS CUT SAWS — SPECIFICATION

भारतीय मानक

वानिकी औजार — अनुप्रस्थ काट आरी के लूप हैंडल — विशिष्ट

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FOREWORD

This Indian Standard was adopted by the Bureau of Indian Standards on 24 March 1989, after the draft finalized by the Forestry and Plantation Machinery Sectional Committee had been approved by the Agricultural and Food Products Division Council.

Wooden loop handles are used with two-men cross cut saws for felling and cross cutting of trees of diameter more than 200 mm. These handles have advantage over the traditionally used permanent fixed clamps as the saw blades can be taken out from the kerf even after fixing the wedges in the kerf by the use of handles.

The requirements for single grip reversible handles used with two-men cross cut saws are specified in IS 12128 : 1987 'Specification for reversible handles for cross cut saws'.

In the preparation of this standard, assistance has been derived from the Forest Operations Division, Forest Research Institute (ICFR), Dehra Dun.

In reporting the results of a test or analysis made in accordance with this standard, if the final value, observed or calculated is to be rounded off, it shall be done in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'.

Indian Standard

FORESTRY TOOLS — LOOP HANDLES, TWO-MEN CROSS CUT SAWS — SPECIFICATION

1 SCOPE

1.1 This standard specifies the material, dimensions and other requirements for loop handles for two-men cross cut saws in accordance with IS 12127 : 1987 'Specification for two-men cross cut saws'.

2 REFERENCES

2.1 The Indian Standards given below are necessary adjuncts to this standard:

<i>IS No.</i>	<i>Title</i>
IS 210 : 1978	Specification for grey iron castings (<i>third revision</i>)
IS 226 : 1978	Specification for structural steel (standard quality) (<i>fifth revision</i>)
IS 2102 (Part 1) : 1980	General tolerances for linear and angular dimensions (<i>second revision</i>)
IS 2507 : 1975	Specification for cold rolled steel strips for springs (<i>first revision</i>)
IS 4905 : 1968	Methods for random sampling

3 MATERIAL

3.1 Handles

The handles shall be made from good quality, seasoned hard wood, such as, *Acacia arabica* (Babul), *Acacia catechu* (Khair), *Anogeissus latifolia* (Bakli), *Adina Cordifolia* (Haldu), *Azadirachta indica* (Neem), *Ougeinia dalbergioides* (Sandan), *Schleichera trijuga* (Kusum), *Shorea robusta* (Sal), *Terminalia tomentosa* (Laurel), etc.

3.1.1 Wooden blanks shall be free from centre heart (pith), decay (rot), checks, shakes, splits, borer holes, warp, etc.

3.2 Cap, Washer and Nut

Shall be made from mild steel (*see* IS 226 : 1975).

3.3 Loop Bolt

Shall be made from spring steel (*see* IS 2507 : 1975).

4 SHAPE AND DIMENSIONS

4.1 The shape and dimensions shall be as shown in Fig. 1A to 1C.

4.1.1 Tolerance for the dimensions shall be of very coarse class specified in IS 2102 (Part 1) : 1980.

5 OTHER REQUIREMENTS

5.1 It is recommended that immediately after manufacture, the handles shall be dipped in raw linseed oil at about 90°C for one hour.

6 WORKMANSHIP AND FINISH

6.1 There shall be no play in the loop bolt after tightening with the nut. Forgings shall be free from burrs, pits, sharp edges, cracks and other defects.

6.2 Threads shall be well formed.

7 DESIGNATION

7.1 Loop handles shall be designated by its name and the number of this Indian Standard as:

Loop Handle IS 12627

8 MARKING

8.1 Each handle shall be legibly and indelibly marked with the manufacturer's name or trade-mark, if any, and the batch or code number.

9 PACKING

9.1 The packing shall be done as agreed to between the manufacturer and the purchaser.

10 SAMPLING

10.1 Unless otherwise agreed to between the purchaser and the supplier, the sampling plan and criteria for conformity shall be as given in Annex A.

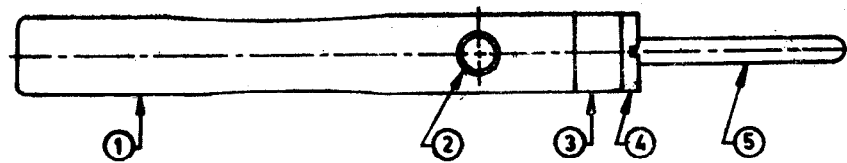
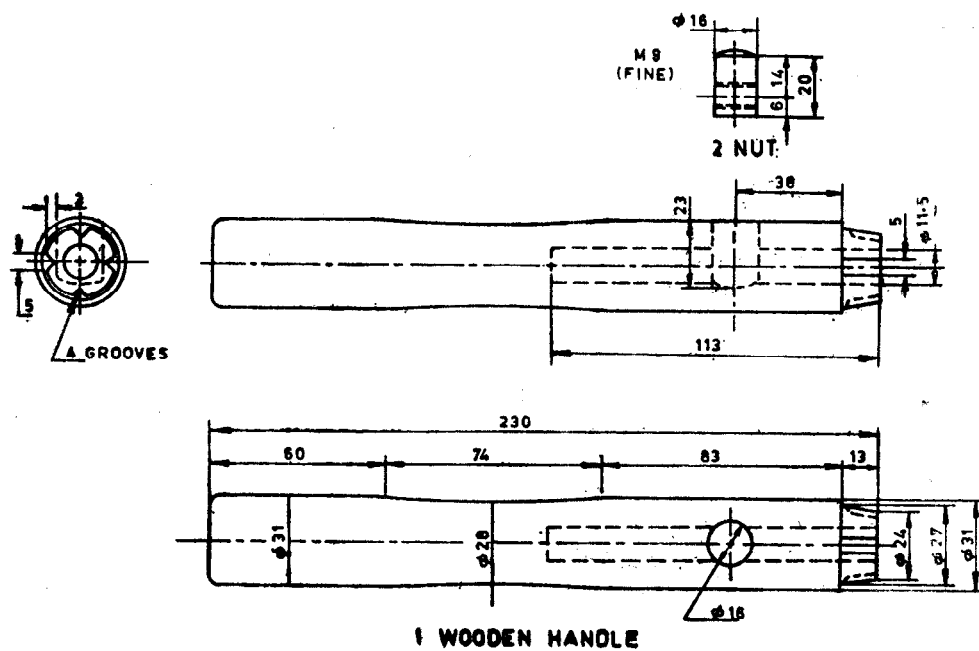
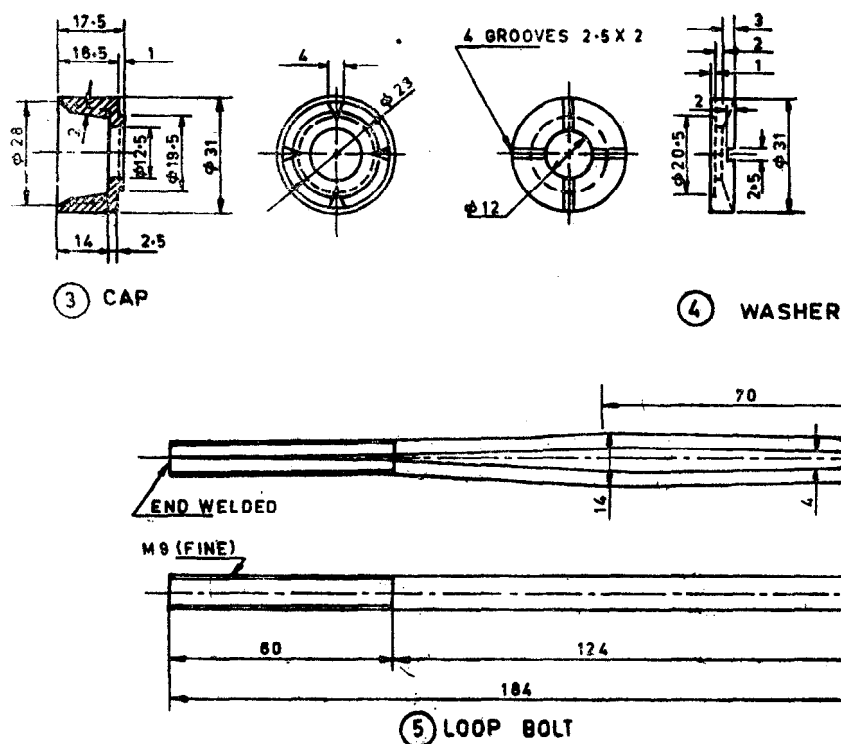


FIG. 1A ASSEMBLY OF LOOP HANDLES



All dimensions in millimetres.

FIG. 1B DIMENSIONAL DETAILS FOR
PART 1 — WOODEN HANDLE, PART 2 — NUT



All dimensions in millimetres.

FIG. 1C DIMENSIONAL DETAILS FOR
PART 3 — CAP, PART 4 — WASHER, PART 5 — LOOP BOLT

ANNEX A

(Clause 10.1)

SCALE OF SAMPLING AND CRITERIA FOR CONFORMITY

A-1 SCALE OF SAMPLING

A-1.1 Lot

In any consignment, all the handles of the same nominal size manufactured under similar conditions of manufacture shall be grouped together to constitute a lot.

A-1.2 For ascertaining the conformity of the lot to the requirements of this specification, tests shall be carried out from the handles selected from each lot separately. The number of handles to be selected at random from a lot shall be in accordance with col 1 and 2 of Table 1. To ensure the randomness of selection, the procedure as laid down in IS 4905 : 1968 may be followed.

A-2 NUMBER OF TESTS AND CRITERIA FOR CONFORMITY

A-2.1 The handles selected according to A-1.2 shall be examined for material (see 3), dimensions (see 4), and general requirements (see 5). Any handle failing to meet the requirements for any

one or more of the characteristics mentioned above shall be declared defective.

A-2.1.1 The lot shall be considered conforming to the requirements of the characteristics mentioned above if the number of handles found defective is less than or equal to the corresponding number given in col 3 of Table 1.

Table 1 Sampling Size and Permissible Number of Defectives

(Clauses A-1.2 and A-2.1.1)

Lot Size	Sample Size	Permissible Number of Defectives
(1)	(2)	(3)
Up to 50	5	0
51 to 150	8	0
151 to 300	13	1
301 to 500	20	2
501 and above	32	3

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